

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) ~~Electro-optical~~ An electro-optical light modulation element comprising

- a substrate or a plurality of substrates,
- an electrode arrangement,
 - an element or a plurality of elements for polarisation of the light and
- a modulation medium,
~~characterised in that wherein~~
- the light modulation element is operated at the temperature at which the modulation medium in the unaddressed state is in an optically isotropic phase and
- the mesogenic modulation medium comprises a chiral component, component (A), which consists of one or more chiral compounds, at least one of which has an HTP of $30 \mu\text{m}^{-1}$ or more, and
- the mesogenic modulation medium comprises an achiral component, component (B), which consists of one or more achiral compounds,
- the mesogenic modulation medium is operated at the temperature at which the light modulation element has a blue phase or
- the mesogenic modulation medium is operated at the temperature at which the light modulation element is in the isotropic phase.

2. (Currently Amended) ~~Electro-optical~~ The electro-optical light modulation element according to Claim 1, ~~characterised in that wherein~~

- the electrode arrangement is able to generate an electric field having a significant component parallel to the surface of the mesogenic modulation medium.

3. (Currently Amended) ~~Electro-optical~~ The electro-optical light modulation element according to Claim 1, ~~characterised in that wherein~~

- the mesogenic modulation medium has a blue phase.

4. (Currently Amended) ~~Electro-optical~~ The electro-optical light modulation element according to Claim 1, ~~characterised in that wherein~~
- the mesogenic modulation medium comprises a chiral component, component (A), which consists of one or more chiral compounds.
5. (Cancelled)
6. (Currently Amended) ~~Electro-optical~~ The electro-optical light modulation element according to Claim 1, ~~characterised in that wherein~~
- the relative temperature dependence (dV^*_{10}/dT) of the characteristic voltage for 10% relative contrast (V_{10}) of the modulation medium is 30%/degree or less at a temperature of 2° above the characteristic temperature ($T_{char.}$) in the range of $\pm 1^\circ$ around this temperature.
7. (Currently Amended) ~~Light~~ The electro-optical light modulation element according to Claim 1, ~~characterised in that wherein~~
- the relative temperature dependence (dV^*_{10}/dT) is 23%/degree or less.
8. (Currently Amended) ~~Light~~ The electro-optical light modulation element according to Claim 1, ~~characterised in that wherein~~
- the characteristic voltage for 10% relative contrast (V_{10}) at a temperature of 2° above the characteristic temperature ($T_{char.}$) of the modulation medium in cells is 80 V, preferably 60 V or less.
9. (Currently Amended) ~~Light~~ The electro-optical light modulation element according to Claim 1, ~~characterised in that wherein~~
- the mesogenic modulation medium comprises a chiral component, component (A), which consists of two or more chiral compounds.
10. (Currently Amended) ~~Light~~ The electro-optical light modulation element according to Claim 9, ~~characterised in that wherein~~
- all the chiral compounds of component (A) have the same sign of the HTP at 20°C in the reference mixture.

11. (Cancelled)
12. (Cancelled)
13. (Currently Amended) ~~Light~~ The electro-optical light modulation element according to Claim 1, ~~characterised in that wherein~~
- the dielectric susceptibility (ϵ_{av}) of the modulation medium at a temperature of 4 degrees above the conversion temperature from the blue phase or from the cholesteric phase into the isotropic phase is 40 or more, preferably 55 or more.
14. (Currently Amended) ~~Light~~ The electro-optical light modulation element of Claim 1, ~~characterised in that wherein~~
- the optical anisotropy at a temperature of 4 degrees below the transition temperature from the cholesteric phase into the isotropic phase is 0.050 or more, preferably 0.080 or more.
15. (Currently Amended) ~~Electro-optical~~ An electro-optical display containing one or more light modulation elements according to Claim 1.
16. (Currently Amended) ~~Electro-optical~~ The electro-optical display according to Claim 15, ~~characterised in that wherein~~ the display is addressed by means of an active matrix.
17. (Currently Amended) ~~Electro-optical~~ An electro-optical display system containing one or more electro-optical displays according to Claim 15.
18. (Currently Amended) ~~Electro-optical~~ The electro-optical display system according to Claim 17, ~~characterised in that it can be used as~~ which is a television screen, as computer monitor or as both.
19. (Cancelled)
20. (Cancelled)

21. (Currently Amended) ~~Use of an electro-optical display system according to Claim 17~~ A method for the display of video signals or of digital signals or information, comprising transmitting video signals or digital signals to a display according to Claim 15.
22. (Cancelled)
23. (Withdrawn and Currently Amended) ~~Mesogenic~~ A mesogenic modulation medium according to Claim 22, characterised in that it which comprises
- (a) a chiral component, component (A), which consists of one or more chiral compounds at least one of which has an HTP of 30 μm^{-1} or more, and
 - (b) optionally an achiral component, component (B), which consists of one or more ~~chiral and/or~~ achiral compounds.
24. (Cancelled)
25. (Cancelled)
26. (Cancelled)
27. (Withdrawn and Currently Amended) ~~Medium~~ A medium according to ~~Claim 22,~~ characterised in that it has Claim 23, having a characteristic temperature in the range from 0°C to 60°C.
28. (Withdrawn and Currently Amended) ~~Medium~~ A medium according to ~~Claim 22,~~ characterised in that Claim 32, wherein the blue phase has a temperature range of 5 degrees or more than 5 degrees.
29. (Withdrawn and Currently Amended) ~~Medium~~ A medium according to Claim 28, ~~characterised in that~~ wherein the blue phase has a temperature range of 10 degrees or more than 10 degrees.
30. (New) The electro-optical light modulation element according to Claim 1, wherein component (A) consists of one or more chiral components at least one of which has an HTP of 50 μm^{-1} or more.

31. (New) The electro-optical light modulation element according to Claim 1, wherein component (A) consists of one or more chiral components at least one of which has an HTP of 90 μm^{-1} or more.
32. (New) A medium according to Claim 23, having a blue phase, in the range from 0°C or below to 80°C or above.